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HISTORICAL AND STATISTICAL VIEW OF SOUTH AMERICA.

except the Paranalyba and San Francesco. The latter runs in a longitudinal valley parallel Andes. of the Alleghany system.

caca, situated in the Andes of Peru, 12,846 feet above the sea, has an area of 2,225 square heavens. miles, with a depth of more than 120 fathoms. The Deseaguadero, which flows out of it, is 24. The fauna of South America is in a great measure peculiar, and in its mammals pararms of the sea than true lakes.

13. The plains of South America are variously designated as the "pampas" of La Plata, 25. Of the wild animals, the quadrumana or American monkeys are not the least the "selvas" of the Amazon, and the "llanos" of the Orinoco.

to west, they have been distinguished into four physical regions: the first, west from the gorilla. They are confined entirely to the tropical forests. coast, is covered with thistles and lucern of vivid green so long as the moisture from rain 26. Of the winged mammals, the most remarkable are the vampires, which are of large reaching to the base of the Andes. The grassy plains of this level territory are occupied by Brazil. No frugivorous bats exist in America. thousands of wild cattle and horses.

c. The llanes of the Orinoco occupy 150,000 square miles between the delta of that river animals, as wolves, foxes, lynxes, etc. and the Rio Coquete, and are so perfectly flat as seldom to present an eminence of even a few 28. Though Australia appears to be the headquarters of the marsupials, there are in The dry season converts them into desolate wastes.

pying nearly 200,000 square miles east of the Andes, and the most barren of all the plains of prehensile tails and opposable hind-thumbs. South America. For the most part it is occupied by sandy, sterile dunes, intermixed with 29. The rodents are represented in South America by the coypu (resembling the beaver. stones and gravel, and occasionally diversified by huge boulders, tufts of brown grass, low but non-constructive and not sociable), the chinchilla, cavies, porcupines, etc. and spiny bushes, brine lakes, saline incrustations, and basaltic platforms.

pears probable, however, that the base is entirely granitic, having gneiss here and there asso- armadillo, chlamyphore, and ant-cater. ciated with it. Mica schist is the most common of the crystalline rocks. Quartz rock is 31. The elephant, hippopotamus, and rhinoceros have no existing types in America; and forms the basis of the table-lands. The superstructure of the latter consists of metamorphic other countries. silver, and in Chili copper. Gold is not found to any great extent in the Andine region nor | manufactured into a cloth of beautiful texture. yet in any other part of South America. The province of Minas Geraes, in Brazil, is also, as 33. The horse, the ass, the ox, the sheep, the goat, and the pig are all strangers to the any other country. The great plains are wholly alluvial.

while it rises to 112° Fahr. in the sandy deserts of the Red Sea.

the prevalence of a cool easterly breeze, a branch of the trade winds, which ascends the chan- in the tropical forests, but extends its range forty degrees on either side of the equator. nel of the Amazon, following all its windings nearly to the base of the Andes.

decreases; at Buenos Ayres the mean annual temperature is 68°, but in the Strait of Magel- numerous, whether in variety or individuals, but have no distinguishing characteristics. lan the temperature of the warmest month does not exceed from 43° to 46°, while snow falls 36. Among reptiles, the principal are the turtle, the alligator, againa, and iguana. The

18. On the west coast, from latitude 7° to 32° south, there is a rainless district of nearly | the swamps of the tropics. a thousand miles in length, the sea-vapors being condensed on the Andes. Within this region 37. The aboriginal races of man are the same throughout America—from Behring's Strait

them, even the largest, are adorned with the most brilliant flowers.

regions where there are due proportions of heat and moisture the magnitude of the trees and | the country to commerce by constructing roads. The Indians of the plains, since the introthe splendor of the flowers are extraordinary. Fruits also abound, including oranges, limes, duction of the horse, live mostly in the saddle and lead the roving life of hunters, neither which contribute to human sustenance or luxury.

11. Between the Amazon and La Plata no rivers of considerable size enter the Atlantic, | beautiful rosewood, and the cinchona-tree. The latter is found chiefly on the Peruvian

to the mountains and the sea for the greatest part of its course, and then turning to the east | 22. The principal cultivated vegetables are—the indigo plant, sugar-cane, coffee plant, the and south-east falls into the ocean. The rest of the Brazilian streams that flow to the cocoa-palm, and the cotton plant. The cultivation of the tea-tree has also been attempted in Atlantic present in their course and magnitude a striking resemblance to the Atlantic waters | Brazil. Paraguay furnishes the yerba-maté, from which is prepared the universal beverage of one-half of the continent.

12. The lakes of South America are neither large nor numerous; and being in many cases 23. Farther southward, toward Patagonia, vegetation gradually loses its tropical caused by the overflowing of the immense rivers, they appear in the rainy season and are character, and finally assumes a more and more stunted aspect, until it is lost in the mosses dry in the summer. The Lake of Maracaybo, into which the waters of the Gulf of Venezuela and lichens of the higher latitudes. A similar change from tropical to boreal is found by enter at high tides, is 120 miles long and 90 miles wide. The great fresh-water lake of Titi- ascending the mountains until their bare and snow-covered heads alone point to the

partly lost by evaporation and infiltration, and terminates in the marsh or lake of Aullagas. ticularly has no corresponding types in the other great divisions of the globe. A few species Salt lakes and salt streams are occasionally found, especially on the pampas west of Buenos of carnivora and marsupials, indeed, such as the cougar and opossum, extend into the south-Ayres. There are also many lakes of small dimensions in Chili and parts of the Andes sys- ern parts of North America; but the quadrumana, edentata, and pachydermata, without tem. The lakes Mirim and dos Patos, on the south coast of Brazil are, like Maracaybo, rather exception, and by far the greatest number of species belonging to other families, have never passed the Isthmus of Panama.

singular. They are entirely distinct from those of Asia and Africa, and compared with the a. The pampas occupy an area of upward of 800,000 square miles, and seldom rise to apes and monkeys of these countries are certainly an inferior race. In no instance do they 1,000 feet above sea-level. Marked by their vegetation and other characteristics from east exhibit the close proximity to man which is observable in the orang-outang, chimpanzee, or

lasts; the second is covered with long grass intermixed with gaudy flowers; the third is a size, and live upon blood sucked by them from men and animals when asleep. Happily tract of swamps and bogs; and the fourth and last a border of thorny bushes and dwarf trees, these dreaded animals are not numerous, and are confined to the forests of Guayana and

27. The spectacled bear inhabits the Andes; but it is of smaller size and less carnivorous b. The selvas of the Amazon lying in the centre of the continent are, as their name im- than the grizzly bear of the Rocky Mountains. The jaguar of South America equals the plies, covered with vast forests, and so densely as to prevent land travel. They extend for Asiatic tiger in size and ferocity. The cougar or puma is found not only in South America, 1,500 miles along the river, and vary in breadth from 300 to 800 miles, and are inhabited but in the southern part of North America. This animal is often, though improperly, called the American lion. Otherwise there are in South America a great variety of carnivorous

feet in height. They are nearly destitute of trees; but after the rains they are clothed with South America two genera—the opossums and yapachs. The first of these contains a great fine grass and afford an abundant pasturage to the countless herds that roam over them. variety of species, all which, with the exception of the Virginia opossum, are confined to South America. The yapach—one of the most anomalous animals in existence—inhabits the Besides these three great tracts of level country, there is the Desert of Patagonia, occu- rivers of Brazil and Guayana. These animals differ from the Australian marsupials in having

30. But of all mammals, the edentata are those which are most especially characteristic of 14. The geology of the southern division of America is known only in localities. It ap- American zoology. Five genera are peculiar to South America, and include the ai, sloth,

also much developed, generally mixed with mica and rich in gold and specular iron. To the generally the pachyderms are poorly represented. Of the tapirs there are two species—the extent of 2,000 miles along the coast of Brazil granite is the prevailing rock, and with signific common tapir and one which inhabits the Andes. The peccary takes the place of the hog of

and old-gneiss rocks, sandstone, clay-slate, limestone (in which are large caverns with bones | 32. The only ruminant au mals found in South America, exclusive of the llama and vicuna, of extinct animals), and alluvial soil. Porphyry and red sandstone abound all over the are various species of deer. The llama and vicuna were used as beasts of burden by the Andes. Peru, Bolivia, and Chili are the great mineral-producing countries, and yield chiefly Peruvians, and the long and thick fleece of the latter furnished a rich, fine wool, which was

its name implies, rich in minerals. Brazil produces also a greater amount of diamonds than New World. These, however, are now found in all parts, in the service of civilization or in a wild state, roaming over the pampas and plains of the vast interior.

15. The climate of South America is greatly modified by local causes. The burning heats 34. The birds of America are remarkable for their varied and splendid coloring. Raof the plains of Arabia are unknown on the Western Continent. In the steppes of Caracas, pacious birds are of a great many different species, as well of vultures as of owls, hawks, and the hottest region of South America, the temperature of the day is only 98° in the shade, eagles. The condor of the Andes is the largest bird of prey known. Maccaws, parrots, and parroquets swarm in all the forests. The gallinaceous tribe is represented by turkeys, curas-16. Throughout the whole basin of the Amazon, though under the equator, the climate is sows, and guans, all of which, with the exception of the Virginian turkey, are peculiar. The neither very hot nor very unhealthy. This arises from its being shaded by lofty forests and humming-bird, of which there are more than two hundred species, is found most abundantly

35. The American ostrich is much smaller than the African species. It is found prin-17. Brazil and the country extending west of it enjoys an equable and temperate climate, | cipally on the pampas from the Amazon to the Strait of Magellan. Of wading birds, the and even at Rio Janeiro the mean temperature is only 74° Fahr. Proceeding south the heat scarlet ibis and the American flamingo are the most remarkable. Swimming birds are very

almost daily. The narrowness of the continent in this direction, the immense tracts of ocean alligator supplies the place of the crocodile, and the agama that of the chameleon of the Eastwhich lie on either side of it, and its exposure to the rigors of the antarctic regions sufficiently ern Continent. Among the serpents, the genus boa is peculiar to America; it contains many species, the principal of which are the boa constrictor, amconda, and aboma, which inhabit

occurs the Desert of Atacama, the mining regions of Chili, and the guano islands of Peru. to Cape Horn. They are almost all of a reddish or copper color, with long black hair, deep-19. The most distinguishing features in the vegetation of South America are its prodig- set and black eyes, aquiline nose, and often of handsome slender forms. In South America ious forests, which cover about two-thirds of the entire surface. These forests are in several many are half-civilized, but a greater number are still in a state of utter barbarism. The abremarkable particulars wholly different from those of the Eastern Continent. The trees are original population of Chili, known as the Araucanos, are more advanced in civilization than in greater variety, more graceful, and have more distinctive characteristics; and many of | the Indians of the plains, have fixed residences, and subsist chiefly on the products of labor. The same fact is presented throughout all the Andine regions, and before their conquest by 20. Throughout the tropical region vegetation is on the grandest scale; and in those the Spaniards several great nations were in existence, and had built great cities and opened cocoa-nuts, pine-apples, mangoes, bananas, pomegranates, goyabas, etc., and many others cultivating the ground nor applying themselves to any other kind of labor. Of the Brazilian Indians there are said to have been no less than two hundred distinct tribes, and many of 21. Southward of the equator are found the bitter quassia, the fragrant tinga bean, the these were cannibals and extremely ferocious. Those along the coast are allied to the Caribs.

GEOGRAPHY OF SOUTH AMERICA.



west longitude, and measures | tude to the Caribbean Sea. square miles.

and Cape Horn (lat. 56° 30′ south, and long. 67° 30′ west). Its peninsular form presupposes of 10,500 feet.

tion of the continent. From this point, advancing northward along the coast of the Pacific, that belongs to the lower course of the Amazon. of its most western extension the Gulf of Guayaquil and the Bay of Panama.

sea. It is here we find the Gulf of Darien, that of Venezuela, and the Gulf of Paria, and be-Plata separated by such slight elevations. The small difference between the levels of the upper tween the islands of Aruba and Margarita the scoop inland is of great extent.

axis of this part of the continent, and approaches the western-shore much nearer than the line of the Rocky Mountains in North America. The consequence is, that while North America possesses as extensive water-system on the Pacific slope, no considerable stream

from the Andes enters the western ocean. 6. These mountains, though stretching through a length of 4,400 miles, are of inconsiderable width, but as regards elevation are second only to the Himalaya Mountains of Asia. In their southern part, as before related, they form a group of mountain islands, constituting the archipelago of Tierra del Fuego, and are penetrated in every direction by narrow inlets of the sea, ending often in glaciers formed from the snow on their summits, here frequently 6,000 feet igh. North of these insular mountains the line is frequently divided by wide, longitudinal valleys, presenting lofty walls on either side, and in parts forming two or more separate ranges, and in its course is cut by several remarkable mountain passes. Many of the peaks are volcanoes, varying in height from 13,000 to 22,000 feet. In the Isthmus of Panama the Andes are depressed and there termi-

1. South America occu- | nate. From both sides of the chain branches are thrown off and the slopes are rugged and pies a much more eastern po- hilly, being most precipitate toward the Pacific, the distance from which is seldom more than

tion of the continent, and is 7. Besides the offsets that shoot out from the Andes, we find in South America several separated therefrom by the distinct mountain-systems. That which runs along the coast of Venezuela is, however, an Caribbean Sea and the Gulf offset from the eastern Cordillera, which runs down to the Caribbean Sea along the east side of Mexico—the connection of of the Lake of Maracaybo. From this system the Venezuelan chain strikes off at right angle, the two parts being maintain- in two parallel ranges running due east, of which the northern keeps close to the sea, culmied only by the narrow Isthmus | nating in the Silla de Caracas and terminating in the island of Trinidad. In consequence of of Panama. It lies between this conformation of the northern coast, no great rivers enter the sea between the mouth of 12° 30' north and 56° 30' south the Magdalena and that of the Orinoco. The Magdalena itself rises in the Andes, at a point lat., and 34° 40' and 81° 45' where the mountains divide, and runs in a longitudinal valley through nine degrees of lati-

north and south 4,800 miles, 8. The highland of Guayana or Parimé lies between the lower waters of the Orinocc and east and west, in its and the Amazon, and forms, with the high table-land of Venezuela and the Andes, the greatest breadth (in lat. 6° | boundary of that immense plain which is drained by the Orinoco. This mountain-system south), 3,200 miles. The area runs from east to west perhaps 600 miles, and consists of several parallel chains, some of is estimated at 7,061,000 which rise to the height of 4,000 to 5,000 feet, and Mount Roraima even to 7,500 feet. Numerous streams descend these mountains to the ocean, the largest of which, the Essequibo. 2. The continent has the runs through almost impervious tropical forests and enters the sea in about 7° north latitude. form of an irregular triangle, of which the three points are—the Isthmus of Panama (lat. | The culminating point of the system, however, is Maravaca, situated in its western part, a lit-80 30' north, and long. 770 30' west), Cape San Roque (lat. 50 30' south, and long. 350 30' west), the to the north of that remarkable natural canal—the Casiquiare—and attains the height

a vast extent of coast, and in this as well as in the absence of great indentations of the ocean, 9. The highlands of Brazil lie on the east side of the continent between the Amazon and it presents some resemblance to Africa. The extent of coast that it offers to the Caribbean | La Plata. In their position and their relation to the great basins of the continent, they pre-Sea and Atlantic Ocean is roughly estimated at 10,000 miles, and to the Pacific at 5,800 miles. sent a most striking analogy to the Alleghany system of North America. Between the Andes 3. Tierra del Fuego, though separated from the mainland by a narrow arm of the sea— and the highlands of Brazil lies the extensive plain drained by the constituents of the Plata, the Strait of Magellan-must be considered, with its barren islands and rocks, as the termina- and between the mountains of Guayana and those of Brazil lies spread the immense level

we find it studded with almost innumerable islands, some of considerable extent, separated 10. The main mass of the Brazil system lies between 18° and 25° north latitude, and conby countless channels. This island coast extends as far north as the Chiloe Archipelago. sists of several ranges, with a length of about 700 miles and a breadth of 400 miles. The Through all this distance the mountains press close on the shore, and the sea, insinuating range nearest the sea is called the Serro do Mar; next to this and adjoining on to the Serro itself within them, detaches island masses and makes many deep creeks, somewhat resembling do Mar, in about lat. 22° 30′ south, we find the central chain, which running as far north as the fiords on the coast of Norway. The coast north of the 40th parallel presents no features the 10th parallel south, contains the highest points of the system. This chain is called the that require notice in this general sketch, except the great bend that takes place about the Serro Espinhaço, and in its northern part the Serro Mantiqueira, which contains Juruoca. latitude of Lake Titicaca, corresponding to a change in the direction of the Andes, and north | the highest point of the system, rising to 8,400 feet. The western chain, which is of small clevation, separates the affluents of the Parana and San Francesco from those of the Araguay 4. The Atlantic coast, though maintaining remarkable uniformity, presents in its southern and Tocantins. It does not appear that any mountain-system connects the highlands of division several gulfs of considerable size and the great estuary of La Plata; and in its north- Brazil with the Andes; and consequently the waters of the Paraguay are separated from the eastern division the estuary of the Amazon and the delta of the Orinoco. The Caribbean southern tributaries of the Amazon by a watershed of no great elevation. In no part of the coast is more irregular and indented by more numerous, if less extensive, encroachments of the world, indeed, do we find such river basins as those of the Orinoco, the Amazon, and the courses of the Orinoco and Amazon is shown by the Casiquiare, the canal which connects 5. The Andes—the great mountain-system of South America—presents the longest | the two systems; and from the basin of the Amazon to that of the Plata the ascent is not unbroken range of lofty summits on the globe. This great mountain chain constitutes the greater than from the upper Mississippi to the level of the great lakes of North America